IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Passnt Application of Sheriggao Liu et al.

Application No.: 10/764,407

January 23, 2004

Group Art Unit: 1755

Examiner:

Confirmation No.: 9511

Filing Date: Title: PHOTORESIST COMPOSITIONS COMPRISING DIAMONDOID DERIVATIVES

> **FIRST** INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

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Sir: End PTO-144	closed is a F 49 for the above-ide			losure Statement and	accompanying form
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THIS PO	JCI 13 00511111100 111 0		Resp	ectfully submitted,	
			BUR	NS, DOANE, SWECH	(ER & MATHIS, L.L.P.
Alexan	ox 1404 dria, Virginia 22313 22-2300	-1404	Ву	Stephen F. Stephen F. Powell	fowell
Date:	10-14-04			Registration No. 43,	014

(4/04)



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of

Shenggao Liu et al.

Application No.: 10/764,407

Filed: January 23, 2004

For:

PHOTORESIST COMPOSITIONS

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DERIVATIVES

Group Art Unit: 1755

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FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed. However, copies of the listed U.S. patents and U.S. patent application publications are not enclosed since it is no longer required according to the July 11, 2003 waiver of the requirement for copies of cited U.S. patents and U.S. patent application publications in national patent applications filed after June 30, 2003 and international applications entering the national stage under 35 U.S.C. § 371 after June 30, 2003.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

FIRST Information Disclosure Statement Application No. <u>10/764,407</u> Attorney's Docket No. 005950-844

To assist the Examiner, the document is / documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date 10-14-04

Stephen F. Powell Registration No. 43,014

Redwood Shores, California Office

(650) 622-2300

P.O. Box 1404 Alexandria, Virginia 22313-1404

Substitute for form 1449A/PTO & 1449B/PTO **FIRST** INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Com	plete if Known
Application Number	10/764,407
Filing Date	January 23, 2004
First Named Inventor	Shenggao Liu et al.
Examiner Name	
Attorney Docket Number	005950-844

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	2004	4		DATENT DOCUMENTS		
	OCT 1 5 2004	₹;	U.S.	PATENT DOCUMENTS		
Examiner	Document	Kind Code (if known)		Name of Patentee or Applicar of Cited Document	nt	Issue/Publication Date (MM-DD-YYYY)
Initials	RAMPS TRADE		A 1 11 - 1 - 1	- t ol		11/24/92
	5,166,313		Archibald	et al.		03/21/95
	5,399,647	<u> </u>	Nozaki _	A -1		04/15/97
	5,621,019		Nakano e			09/09/97
	5,665,518	100/=/	Maeda et			11/25/97
	5,691,111		lwasa et a			05/26/98
	5,756,850		lwasa et a	, ''' '		07/27/99
	5,929,271		Hada et a			03/28/00
	6,042,991		Aoai et al			06/06/00
	6,071,670			uchi et al.		06/20/00
	6,077,644		Hada et a			07/11/00
	6,087,063	430/270.1	Hada et a	al		08/15/00
	6,103,445	430/270.1	Wilson et			09/26/00
	6,124,074	430/270.1	Varanasi			10/24/00
	6,136,501	430/270.1	Trefonas	, III et al.		03/13/01
	6,200,724	430/270.1	Namiki e	t al.		03/13/01
	6,200,728	430/270.1	Cameror	et al.		05/01/01
	6,225,019	430/270.1	Matsuda	et al.		05/01/01
	6,225,476	549/323	Hada et	al		
	6,238,842	430/281.1	Sato et a			05/29/01
	6,245,485	430/288.1	Aoai et a			06/12/01
	6,251,569	430/325	Angelop	oulos et al.		06/26/01
	6,268,106	430/270.1	Park et a			07/31/01
	6,291,130	430/270.1	Kodama			09/18/01
		430/270.1	Barclay	et al.		10/23/01
	6,306,554 6,313,327	552/553	Seo et a	1.		11/06/01
		568/591	Nakano			02/05/02
	6,344,590	521/50.5	Yates	<u> </u>		04/30/02
	6,380,270	430/270.1	Uetani e	t al		05/07/02
	6,383,713	549/318	Hada et			05/14/02
	6,388,101		Nakano			05/21/02
	6,391,520	430/270.1	Yamaha			06/11/02
	6,403,280	430/270.1	Hasega			06/11/02
	6,403,823	560/116				07/09/02
	6,416,925	430/270.1	Aoai et			08/27/02
	6,440,636	430/270.1		ouchi et al.		10/08/02
	6,462,158	526,282	Miwa et			10/15/02
	6,465,137	430/5		be et al.		11/12/02
	6,479,211	430/270.1	Sato et			11/26/02
	6,486,330	549/270	Nakano			12/03/02
	6,489,082	430/313	Hattori			12/10/02
	6,492,086	430/270.1	Barclay			12/24/02
	6,498,226	528/170	Cheng			02/11/03
	6,517,991	430/270.1				04/15/03
	6,548,221	430/270.1				04/22/03
	6,552,143	526/271	Funaki			04/29/03
	6,555,289	430/270.1				05/13/03
	6,562,554	430/326		si et al.		05/20/03
	6,566,038	430/270.1	Nishi e	t al		30,20,00

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	Date	
Examiner	Considered	
Signature	whether or not citation is in conformance with M.P.E.	P. § 609. Draw line through citation if not in
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Complete if Known Substitute for form 1449A/PTO & 1449B/PTO 10/764,407 **Application Number FIRST** January 23, 2004 INFORMATION DISCLOSURE **Filing Date** Shenggao Liu et al. STATEMENT BY APPLICANT **First Named Inventor Examiner Name** (use as many sheets as necessary) **Attorney Docket Number** 005950-844 of 2 Sheet

			U.S. PATENT DOCUMENTS			
Examiner	Document	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)		
Initials	Number			10/04/01		
	2001/0026901		Maeda et al.	02/07/02		
	2002/0016516	000,0.0	Nakano et al.	03/28/02		
	2002/0037472	10012	Zampini et al.	04/25/02		
	2002/0048720	100, 2.0.	Sasaki et al.	05/30/02		
	2002/0064727	100,2.	Sato	06/20/02		
	2002/0076543	120,0.0.	Sikonia	07/25/02		
	2002/0099147	525/329.7	Yoshida et al.	08/29/02		
	2002/0120090	528/170	Cheng et al.	09/05/02		
	2002/0123010	430/325	Angelopoulos et al.	02/07/02		
	2002/0016516	568/818	Nakano et al.	11/14/02		
	2002/0169266	526/281	Funaki et al.	11/28/02		
	2002/0177743	585/16	Dahl et al.	12/05/02		
	2002/0182360	428/40.5	Koshiyama et al.	12/05/02		
	2002/0182534	430/270.1	Varanasi et al.	12/12/02		
	2002/0187420	430/270.1	Barclay et al.	01/09/03		
	2003/0008241	430/287.1	Sato et al.	01/23/03		
	2003/0017415	430/287.1	Kodama et al.	01/23/03		
	2003/0017635	438/29	Apen et al.	02/13/03		
<u> </u>	2003/0031789	427/248.1	Bedwell et al.	02/13/03		
	2003/0031949	430/270.1	Barclay et al.	02/13/03		
	2003/0031950	430/270.1	Uenishi et al.	03/06/03		
	2003/0044717		Kodama	03/06/03		
	2003/0044718		Kodama et al.	03/27/03		
	2003/0059710		Inoue	04/03/03		
	2003/0064327		Rottstegge	04/10/03		
	2003/0068585		Rottstegge	04/17/03		
	2003/0073027		Namiki et al.	06/20/02		
	2002/0076543		Sikonia	04/24/03		
	2003/0077540		Kodama et al.	04/24/03		
	2003/0077543		Sato	06/05/03		
	2003/01/02285		Nozaki et al.	06/05/03		
	2003/0105264		Bedwell et al.	06/12/03		
	2003/010320		Sato	09/05/02		
	2003/0123010		Angelopoulos et al.	07/17/03		
	2003/0123010		Fujimori et al.	08/07/03		
	2003/014820		Kodama	08/07/03		
	2003/014821		Funaki et al.	06/01/03		

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Signature Signature	nformance with M.P.E.	P. § 609. Draw line through citation if not in

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			FOREIGN PATENT I	OCUMENTS							
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Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
		 							<u> </u>		
	1110 00/10000	<u> </u>	PCT	08/20/92							
	WO 92/13909		PCT	07/25/02				<u> </u>	<u> </u>		ļ
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<u> </u>	NON-PATENT LITERATURE DOCUMENTS
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. LIAW, Der-Jang, "Synthesis and characterization of new polyamides and polyimides prepared from 2,2-bis[4-(4-aminophenoxy)phenyl]adamantane," Macromol. Chem. Phys. 200. No. 6, pp. 1326-1332 (1999) NOZAKI, Koji et al., "High-Performance Resist Materials for ArF Excimer Laser and Electron Beam Lithography," FUJITSU Sci Tech. J., 38, 1, pp. 3-12 (June 2002) PADMANABAN, Munirathna, et al., "Etch Properties of 193nm Resists: Issues and Approaches," Journal of Photopolymer Science and Technology, Vol 15, No. 3 (2002), pp. 521-528 PADMANABAN, Munirathna, et al., "Layer-Specific Resists for 193nm Lithography," Journal of Photopolymer Science and Technology, Vol. 13, No. 4 (2000) pp. 607-616 PANIEZ, P. J., et al., "Thermal Phenomena in Acryllic 193 nm Resists," SPIE Conferences on Advances in Resist Technology and Processing XVI, Santa Clara, CA, SPIE Vol. 3678 pp. 1352-1363 SHIDA, Naomi, "Advanced Materials for 193-nm Resists," Journal of Photopolymer Science and Technology, Vol. 13, No. 4 (2000) pp. 601-606 USHIROGOUCHI, Tohru, et al., "Advanced Materials for 193-nm Resists," In Advances in Resist Technology and Processing XVII, Francis M. Houlihan, Editor, Proceedings of SPIE Vol. 3999 (2000) pp. 1147-1156

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Examiner	Considered	į
Signature	Considered in Conference with M.P.E.P. § 609. Draw line through citation if not in	

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